

In The Claims:

Please amend the claims as set forth below.

1. (Currently Amended) An ergonomic support comprising:

at least ~~one~~ guide rail ~~two~~ guide rods adapted to be internally mounted in a seat;

an archable pressure surface having an upper end and a lower end, said upper end and said lower end of said archable pressure surface being movably attached to said at least ~~one~~ guide rail ~~two~~ guide rods and at least one of said upper end and said lower end being disposed to slide along said at least ~~one~~ guide rail ~~two~~ guide rods;

a traction element engaged to slide said at least one of said upper end and said lower end of said archable pressure surface along said at least ~~one~~ guide rail ~~two~~ guide rods such that an arch forms in said archable pressure surface, said arch having an apex; and

a weight distribution surface fixed to said archable pressure surface.

2. (Original) The ergonomic support of Claim 1 wherein said ergonomic support is a

lumbar support.

3. (Original) The ergonomic support of Claim 1 wherein said weight distribution surface is fixed to said archable pressure surface substantially at said apex.

4. (Original) The ergonomic support of Claim 1 wherein said weight distribution surface is fixed to said archable pressure surface along only one line.

5. (Original) The ergonomic support of Claim 1 wherein said weight distribution surface is fixed only along a medial line about at said apex of said archable pressure surface.

6. (Original) The ergonomic support of Claim 1 wherein said weight distribution surface is plastic.

7. (Original) The ergonomic support of Claim 1 wherein said weight distribution surface is metal

8. (Original) The ergonomic support of Claim 1 wherein at least one end of said weight distribution surface is free.

9. (Original) The ergonomic support of Claim 1 wherein said weight distribution surface is ribbed.

10. (Original) The ergonomic support of Claim 1 wherein said weight distribution surface has holes.

11. (Original) The ergonomic support of Claim 1 wherein said weight distribution surface is flexible.

12. (Original) The ergonomic support of Claim 1 wherein said weight distribution surface is curvilinear.

13. (Original) The ergonomic support of Claim 1 wherein said weight distribution surface is tapered towards an upper edge and tapered toward a lower edge of said weight distribution surface.

14. (Original) A method of ergonomic weight support distribution comprising:
mounting an archable pressure surface to a ~~guide element~~ at least two guide rods at an upper end and a lower end of said archable pressure surface, said ~~guide element~~ at least two guide rods being adapted to be internally mounted in a seat;
engaging a traction element with said archable pressure surface such that at least one of said upper end and said lower end of said archable pressure surface, travels along said ~~guide element~~ at least two guide rods to selectively arch said archable pressure surface;
fixing a weight distribution surface to said archable pressure surface.

15. (Original) The method of Claim 14 wherein said ergonomic support is a lumbar support.

16. (Original) The method of Claim 14 wherein said weight distribution surface is fixed to said archable pressure surface substantially at an apex of said arch in said archable pressure surface.

17. (Original) The method of Claim 14 wherein said weight distribution surface is fixed to said archable pressure surface along only one line.

18. (Original) The method of Claim 14 wherein said weight distribution surface is fixed only along a medial line about at said apex of said archable pressure surface.

19. (Original) The method of Claim 14 wherein said weight distribution surface is plastic.

20. (Original) The method of Claim 14 wherein said weight distribution surface is metal.

21. (Original) The method of Claim 14 wherein at least one end of said weight distribution surface is free.

22. (Original) The method of Claim 14 wherein said weight distribution surface is ribbed.

23. (Original) A method of retrofitting a weight distribution device to an ergonomic support device comprising:

fixing a weight distribution surface to an archable pressure surface.

24. (Original) An ergonomic support comprising:

at least ~~one guide rail~~ two guide rods rail adapted to be internally mounted in a seat;

an archable pressure surface having an upper end and a lower end,

means for movably attaching said upper end and said lower end of said archable pressure surface to said at least ~~one guide rail~~ two guide rods such that at least one of said upper end and said lower end of said archable pressure surface slide along said at least ~~one guide rail~~ two guide rods;

traction means to slide said at least one of said upper end and said lower end of said archable pressure surface along said at least ~~one guide rail~~ two guide rods

such that an arch forms in said archable pressure surface, said arch having an apex;

a weight distribution surface; and

means to fix said weight distribution surface to said archable pressure surface.

25. (New) The ergonomic support of claim 1 wherein said archable pressure surface is mounted to each of said at least two guide rods lateral to a vertical midline.

26. (New) The ergonomic support of claim 1 wherein said distribution surface is substantially as wide as said archable pressure surface.

27. (New) The ergonomic support of claim 1 wherein said weight distribution surface is substantially as high as said archable pressure surface.

28. (New) The ergonomic support of claim 1 further comprising a seat on which said at least two guide rods are mounted.

29. (New) The ergonomic support of claim 1 whreein said traction element is a Bowden cable.

30. (New) The ergonomic support of claim 1 wherein said traction element is actuated by an actuator remote from said guide rods, said archable pressure surface and said weight distribution surface.

31. (New) The ergonomic support of claim 1 wherein said traction element is actuated by an actuator mounted on a frame of the seat in which said ergonomic support is mounted.

32. (New) The ergonomic support of claim 1 wherein said traction element is actuated by an electric motor.